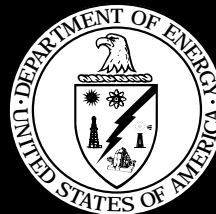


The Standards

News on the DOE Technical Standards Program



Forum

Volume 5 - Number 2 - September 1997

Workshop 97

The Department of Energy held its annual Technical Standards Program Workshop on July 8-10, 1997, at the Loews L'Enfant Plaza Hotel in Washington, D.C. The workshop focused on aspects of implementation of the *National Technology Transfer and Advancement Act of 1995* [Public Law (PL) 104-113] and the related revision (still pending) to OMB Circular A-119 (OMB A-119), *Federal Participation in the Development and Use of Voluntary Standards*. It also addressed DOE's efforts in transitioning to a standards-based operating culture, and, through this transition, to change from a developer of internal technical standards to a customer of external technical standards. 150 individuals representing DOE and DOE contractor organizations, other Federal agencies, voluntary standards groups, and the private sector attended the workshop. This higher than normal attendance, in comparison with past workshops, is attributed, in part, to the effect that the new law is having on the Federal Government.



Keynote Speaker Richard Meier

The workshop was designed to provide a forum to better understand how the new law is affecting Department activities. Panel topics such as "Public Law 104-113 and Its Influence on Federal Agency Standards Activities" and "Update on Global Standards Issues" provided insight on both the internal and external effects of the new law. Keynote speaker Richard Meier of Meadowbrook International (and formerly the Deputy Assistant U.S. Trade Representative) addressed the subject of international trade balance statistics. He pointed out that increases in U.S. export figures do not necessarily indicate increases in employment. Rather, increased employment results from product growth. Mr. Meier also discussed issues such as the U.S. migration to the use of the metric system, the impact of budget limitations on Government participation in voluntary standards organizations, international standards ISO 9000 and ISO 14000, and DOE's role in the worldwide transition from weapons production to cleanup. In addition to

(Continued on Page 12)

"Fast Track" Standards Development: An EIA Success Story

By John Mann and CeCe Fleming.*

John Mann is Vice President of Quality, AVX Corporation and former Chairman of the EIA QRE Committee and CeCe Fleming is Manager of Engineering Publications, Electronic Industries Association.



A 1996 survey of corporate member CEOs conducted by the Engineering Department of the Electronic Industries Association (EIA) concluded that standards were an absolutely integral part in conducting business domestically as well as internationally. The respondents noted, too, that among their top priorities, an improvement in the timeliness in the standards development process was critical and essential for standards to have any relevance in today's and tomorrow's business world.

To meet this stated priority, the Engineering Department Executive Committee (EDEC) challenged its departmental standards committees to develop a process that would permit the development and publication of an EIA standard in one year or less; this being a dramatic change from the usual average of two and one half years. Such a newly-initiated process in this given time frame would satisfy 80% of the surveyed membership's needs.

Accepting the Challenge: Setting the Process Rules

EIA's Quality and Reliability Engineering Committee (QRE) accepted the challenge. During meetings at the 1995 EIA Fall Conference, QRE members agreed to a new "fast track"

(Continued on Page 4)

* Reprinted with permission of the Standards Engineering Society, *SES Journal*, May/June 1997, vol. 49, No. 3. For subscription and membership information, contact: Don Kear, SES Executive Director, 937-258-1955, kearses@aol.com.

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a note from the Manager...

DOE Technical Standards Program

We had a very successful Technical Standards Managers' Committee Meeting, Topical Committee Meeting, and Technical Standards Program Workshop the week of July 7! Thanks to all of you who participated. Representatives of several Federal agencies observed the Workshop (and some, the TSMC meeting), and were uniformly complimentary of our people and processes, and the conduct of the Workshop. Don Williams of the Oak Ridge National Laboratory deserves special recognition for making these activities a success.

One of the things I need to keep DOE'ers apprised of is the status of the revision to DOE Order 1300.2A, *DOE Technical Standards Program*. Comment resolution and revisions to DOE 1300.2A were completed in September of 1996 as draft DOE Order 252.1, with an accompanying DOE Guide 252.1.

However, release of the revised Order 252.1 and Guide were delayed, pending a proposed revision to Office of Management and Budget Circular A-119 (OMB A-119), which was originally planned for release also in September of 1996. This latest OMB A-119 revision is intended to reflect revised and additional requirements for Federal agencies related to technical standards contained in Public Law 104-113, the *National Technology Transfer and Advancement Act of 1995*. Based on my participation with the Interagency Committee on Standards Policy, it is unlikely that OMB will complete the proposed revision to OMB A-119 until September of 1997, and perhaps later. Due to the nature of the changes in definitions and reporting requirements, it would be inappropriate to issue a new DOE O/G 252.1 if we are not sure that it will be consistent with OMB A-119 requirements. As a result, we will have to wait while A-119 is finished. Meanwhile, DOE 1300.2A remains in effect, and the Technical Standards Program Procedures have been revised to reflect the new Public Law and key (i.e., unlikely to change) provisions of A-119.

— Rick Serbu



Question: The preparation and review functions of technical standards preparation could be helped considerably if there were some way to make comments electronically. What software capabilities exist for doing this?

Answer: There are two basic responses to this question:

(1) In the Q&A section of the December 1996 issue of *The Standards Forum*, we reported that some of the commercial word processing products were indeed developing "authoring" capabilities or "groupware" that should provide significant assistance to document preparation and review. We now know of at least two products that include "revision tools." These are Microsoft Word™ 7.0 and Corel WordPerfect™ 8.0. Both of these products have the capability of inserting revision marks in the text that are linked to suggested revisions and extended comments. The revision marks can be color-coded to identify specific reviewers. The comments can be viewed on demand and rejected or accepted, combined, and incorporated as needed by the review coordinator. The "Fast Track" article beginning on page 1 of this issue chronicles the successful application of one of these products. Adobe® Acrobat® 3.0 has revision tools for PDF files, but this product may be priced out of range for some users.

(2) The second approach may alternately be used for those who do not have revision tools in their current software, or

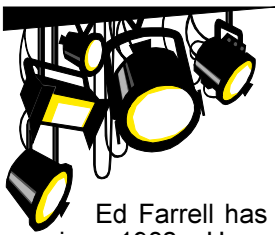
who must make their comments using a word processor that is different from the one in which the original (review) document is supplied. It involves using a word processor to make the comments, cross-referencing the comments to the appropriate locations in the document being reviewed, and then saving the comments in a separate document file. This method requires the creation of a file separate from the file containing the document to be reviewed, but at least provides the comments in electronic form. The process can be expedited on PCs using Windows for Workgroups, Windows 95, or Windows NT 4.0 software by splitting the screen vertically or horizontally so that the original and comment documents can be viewed side-by-side. The split screen also facilitates any desired copying and pasting of text between documents.

Question: Sometimes I receive a draft of a DOE technical standard for review that is not accompanied by the Preparing Activity's (PA's) address or phone number. How can I obtain this information?

Answer: There are several possible routes to a PA's address:

- If the PA is a DOE employee, look up the information on the DOE Internet "Telephone Book" at: <http://www.hr.doe.gov/>.
- The phone numbers and Email addresses (when available) of all authors of DOE technical standards projects are listed under "Draft DOE Technical Standards" on the Technical Standards Program Internet home page at: <http://apollo.osti.gov/html/techstds/techstds.html>.
- Call the editor or one of the other TSPO members listed in this publication's masthead at the end of this issue and ask for the information.

Technical Standards Manager Spotlight



Edward Farrell

Technical Standards Manager
Lawrence Livermore National
Laboratory

Ed Farrell has been active in technical standards since 1982. He applies an interesting analogy to express his standards philosophy. "After working in the facilities design environment for the past 15 years, I've found that standards, as much as they're used, are seen as the unglamorous side of engineering. There's the sense that creativity and standards are incompatible; that standards are a sort of matrimonial ball-and-chain to the designer's innovation. And indeed there is a down-to-earth conservatism embodied in standards that embraces the tried-and-true, the economical, and the safe. This conservatism may give rise to complaints but (ironically) it's also what saves the marriage."

At the Lawrence Livermore National Laboratory (LLNL), Ed has worked for a number of years at making sure that facilities engineers and architects have access to (and use) the latest industry standards in their work. "The average Plant Engineering designer works in a world where knowledge of consensus standards is indispensable, yet the demands of the job may leave little time for staying on top of the changes that constantly occur in the standards arena," Ed told *The Standards Forum*. "Our solution to this over the years has been to identify a 'working set' of standards and build them into all of our contract documents and a small set of internal design standards. Our current working set numbers about 300 industry consensus standards; these are referenced in a 16-division master specification that is used in all of our subcontracts as well as our in-house construction work. They are also referenced in over a hundred standard procurement specifications used to purchase equipment."

One of the tasks of the group that Ed supervises is to make sure that LLNL's master specifications are technically current and that the industry standards they reference are appropriate and current. "This is never an easy job," Ed said, "because there are many innovations that the construction industry adopts over the years that may need evaluation. Generally we innovate on specific projects when the payback seems greater than the risk; subsequent 'success stories' get incorporated into our master specifications for others to use. In this way we try to keep from getting too rigid in our practice, while still defining that practice in terms of the consensus standards we use."

Ed's group also maintains about 50 in-house standards. In-house standards are something of a "bugaboo" in the standards climate defined by ISO 9000, but Ed points out that in-house standards should serve a very different purpose from industry standards. "Where industry standards define industry norms, in-house standards define site-specific operational norms. Where industry standards treat materials and methods, with an eye towards manufacturing and production, in-house standards treat products and systems with an eye toward construction and procurement. In-house standards tend to define usability and maintainability, which are not al-



ways strictly engineering criteria. These criteria are generally site-specific and thus may change rapidly. They also tend to have a short shelf life. This is not always the case, however. Two in-house standards developed at Livermore to aid in purchasing and maintaining storage batteries for use in emergency power systems were recently adopted as DOE site-wide specifications."

Ed notes that maintaining site-specific standards and master specifications is an overhead cost and therefore needs to be carefully evaluated to determine the added value. In-house standards and master specifications should never rehash material already dealt with by industry standards. Instead,

they should define which industry standards apply to work at hand and how those standards are to be interpreted and used. For a site with a large volume of more-or-less routine design work, this resource can be a big cost savings. Ed added, "Anyone faced with writing construction and procurement specifications on a regular basis knows what a chore routine material selection and standards referencing can be. We estimate that use of our master specifications and in-house standards cuts material selection time by a factor of 3:1, or from approximately 15% of the designer's time to 5%.

Depending on the yearly volume of design work at a site, this reduction can translate to a very significant dollar value."

Ed indicated other potential cost savings that may result from a standards-based approach. "My group serves a plant engineering organization, which at LLNL is responsible for all site maintenance, utilities, and most new construction. In such an organization there is a big concern that designs conform to common industry practice and are maintainable. By making our designs conform to site-specific conventions, we address many maintenance issues in advance which can result in greatly lowered maintenance costs."

Ed has been a DOE Technical Standards Manager since 1994. He has found it very valuable to see the sorts of standards issues that other sites wrestle with, and makes a notable observation: "DOE is moving into a period where many previously pioneering activities are now standardized. This causes some grinding of organizational gears, but to become more efficient fiscally, the department has to behave more like the rest of industry. There's a fine line here though. Businessmen and pioneers are like oil and water; let's not forget that there are still many activities in DOE that will require pioneers for success. A successful standards-based culture will certainly recognize this and not squelch the true source of its vitality."

"Businessmen and pioneers are like oil and water; let's not forget that there are still many activities in DOE that will require pioneers for success. A successful standards-based culture will certainly recognize this and not squelch the true source of its vitality."

— Ed Farrell

"Fast Track"... (Continued from Page 1)

process. The mechanism envisioned to bring about this "fast track" would be the use of electronic tools and techniques for intra-committee communication, document distribution, and committee balloting in lieu of its normal paper-based operations. Beginning with its next major document development project, accepted procedures for standards development would be coupled with new development tools. And the opportunity to try out the process soon presented itself when QRE was asked to begin work on an assessment guide for process certification that would complement EIA-599, the requirements document for Process Certification.

Since EIA-599 was a joint development between QRE and another EIA-sponsored standards-setting committee (JEDEC), a Joint Task Force (JTF) was formed to address the assignment. The JTF had a project initiation meeting in February 1996, wherein a chairman was elected and the document's content and timeliness objectives were established. Further, JTF participants agreed to use Email for communication amongst themselves, use the revisions tool in Microsoft Word for revising the document, and post the revisions on a Bulletin Board Service (BBS) maintained by EIA. To every extent possible, the JTF agreed to send the procedurally-required QRE, JEDEC and Industry Ballots via Email (with facsimiles as a second preferred option when Email was not available to a member). To kick off the experiment, the JTF submitted the Project Initiation Notification (PIN) to EIA's Publication Office for submission to EDEC (the first step in EIA's development process). March 6, 1996 became the "official" start date for the document's development.

The Development Phase

As the JTF participants proceeded with the document development phase of the project, extensive communication via Email occurred. This not only sped up the intra-committee member correspondence but also provided an opportunity for members to help each other learn how to use the electronic methods of communication and document distribution to their fullest advantage. Full Joint Task Force comments, revisions, and balloting response times averaged less than one week for each iteration. Only one face-to-face meeting was held near the end of the process to review and address the comments received from the final ballot. More than 400 ballots were sent out on the final letter ballot, about half via Email.

In July 1996, the JTF's final document was submitted for approval by EDEC and EIA-681, "Assessment Guide for Process Certification," was published soon thereafter. In bringing EIA-681 into the market in less than five months — from project initiation to completion — the JTF met EDEC's timeliness challenge and their own corporate wishes.

A Host of Lessons Learned

In developing EIA-681, residual benefits were realized over the previous ways of conducting business. First, the process became six times faster than existing processes. Second,

considerable dollar savings in postage, copying, and travel were realized by all those involved. Third, those involved in the standards development process were introduced to new and faster tools for getting their work accomplished — much to the satisfaction of the originally surveyed EIA members.

And finally, as a follow-up to the EIA-681 "fast track" process, the members of the Joint Task Force were asked for their opinions on the steps taken in developing the standard and the key factors for JTF's success. Their opinions, as stated below, should help any other standards developing organization in transitioning to successful electronic-based standards development processes:

- Establish clear objectives in the beginning for content, methods, schedules
- Introduce an Initial Draft ("Strawman" Proposal) in an electronic format
- Foster cooperative team dynamics and participation
- Identify subject champions on the team and use them
- Agree upon electronic communication and use of standardized software using revision tools, e. g., Microsoft Office (Word, PowerPoint)
- Encourage team members helping others master the methods of electronic file transfer and document revision
- Fund and support a staff capability for electronic documentation, communications, and coordination.

ANS Developing Standard for Dry Spent Fuel Storage

The American Nuclear Society has appointed a standards writing group to begin the process to develop an ANS standard for dry storage of nuclear reactor spent fuel. The standard may take the form of either a new ANS standard or may become a revision to the current standard ANSI/ANS 2.19-1981 (R 1990), *Guidelines for Establishing Site-Related Parameters for Site Selection and Design of an Independent Spent Fuel Storage Installation (Water Pool Type)*.

Formation of the writing group came as a response to requests to the ANS Nuclear Power Standards Committee (NUPPSO) due to the increasing need for reliability upon dry storage to ease the pressure on storage space in spent fuel pools at nuclear power plants until a permanent repository can be made available to U.S. nuclear power plants. The writing group will be composed of members from nuclear companies and national laboratories to provide a cross-section of organizations who are involved in the design, construction, testing and use of dry spent fuel storage containers. The chairman of the standards writing group is Mr. John Donnell, Stone & Webster Engineering Corporation, 303-741-7009, Email: john.donnell@stoneweb.com.

Update on Topical Committees

In conjunction with the 1997 DOE Technical Standards Program (TSP) Workshop in Washington, D.C., July 8-10, 1997, a highly successful, participative 3-1/2 hour special Topical Committee (TC) Session was held on the morning of July 8 to introduce topical committee points-of-contact to representatives from six standards development organizations (SDOs). A discussion panel was composed of presenters from the American Industrial Hygiene Association, the American Nuclear Society, the American Society of Mechanical Engineers, the American Society for Testing and Materials, the Institute of Electrical and Electronics Engineers, Inc., and the National Fire Protection Association. Nine of the eleven current TCs were represented. The current TCs are the Backup Power Working Group, Emergency Management Special Interest Group (SIG), Explosive Safety, Fire Protection, Industrial Hygiene/Occupational Safety SIG, Metrology, Occurrence Reporting SIG, Packaging and Transportation SIG, Performance-Based Management SIG, Quality Management SIG, and Nuclear Safety Training. Formal charters are on file with the TSP for five of the eleven recognized TCs. Several Technical Standards Managers and DOE headquarters/contractor representatives in attendance contributed to the wide range of discussion topics that included:

- 1) Use of the "sunset review" to bolster the process of eliminating obsolete, unneeded, or redundant DOE standards,
- 2) SDO conversion of DOE guidelines to non-Government consensus standards,
- 3) TSP incentives for DOE contractor participation in SDO standards development activities,
- 4) Tailoring of non-Government consensus standards for DOE operations,
- 5) Degree of regimentation of topical committee standards activities by the TSP.

An interest was expressed in the formation of topical committees in metallurgy, decontamination and decommissioning, and hoisting and rigging. The Technical Standards Program Office will perform further inquiries to determine the feasibility of forming new TCs in these areas.

Topical committees are identified on the World Wide Web under the Technical Standards Program Web site (<http://apollo.osti.gov/html/techstds/techstds.html>). Links to topi-



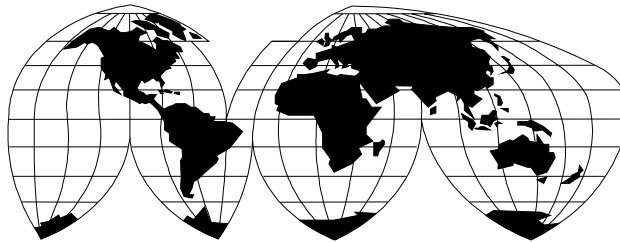
cal committee home pages and TC points-of-contact are highlighted on the TSP home page. Those interested in forming other topical committees should contact Rick Serbu, 301-903-2856, Email Richard.Serbu@eh.doe.gov or M. Norman Schwartz, 301-903-2996, Email Norm.Schwartz@eh.doe.gov.

Three Key Metrology Issues Addressed

The newly-established DOE Metrology Committee, at its first general meeting at NIST headquarters in Gaithersburg, MD, formed three working groups to begin concrete efforts at solving three major DOE metrology issues: DOE Metrology Resources, DOE Metrology Uniformity, and DOE Metrology Communications. Those areas had been identified earlier at the initial DOE Metrology Workshop, held at Sandia National Labs in 1996 under the auspices of the DOE Technical Standards Program Office, as being of primary concern to DOE metrology personnel.



The World of Standards



NEWS BRIEFS

The Resources Working Group, headed by Bob Wayland at Sandia, is designing an Internet web site to assist DOE metrology information needs. The site will be built and operated by the Office of Scientific Technology and Information (OSTI) under its "DOE Topical Committees" heading and maintained in collaboration with the DOE Metrology Committee.

The Uniformity Working Group is chaired by Harry Moody at the Idaho National Engineering and Environmental Laboratory. Mr. Moody is leading efforts by his committee to determine a baseline of metrology standards currently in use at DOE facilities.

The Communications Working Group, led by Ken Jensen (Allied Signal/Kansas City), is seeking to establish an educational working group that will develop and implement a program to educate DOE customers and sponsors on the importance of metrology and metrology capabilities within DOE.

In August of this year, all three groups presented progress reports to the Interim Steering Committee of the DOE Metrology Committee during a meeting at Sandia. A future issue of *The Standards Forum* will report on those developments. Anyone interested in involving themselves with DOE metrology efforts should contact Bob Wayland: 505-845-9771 (jrwayla@sandia.gov).

(Continued on Page 6)

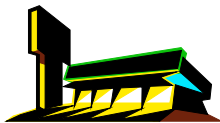
Key Laboratory Accreditation Issues Being Identified



Efforts are currently under way by the DOE Technical Standards Program Office (TSPO) to assess DOE laboratory accreditation issues. DOE personnel involved or interested in accreditation of DOE laboratories met at Sandia National Labs (Sandia) on August 27-28, 1997, to conduct a workshop to determine DOE accreditation needs/issues and to evaluate the formation of a DOE topical committee on accreditation. The recently formed National Council on Laboratory Accreditation (NACLA) plus international efforts to establish a global economy and standards are primary drivers behind the TSPO's move.

This publication will report details on that workshop and more about accreditation in future issues. Meanwhile, contact: Dick Pettit (NACLA), rbpetti@sandia.gov, or Bob Wayland (Sandia), jrwayla@sandia.gov, for more information about DOE accreditation efforts.

One-Stop Standards Shopping - Nearing Reality



In the article "An Electronic Shopping Mall for Standards" in the December 1996 issues of *The Standards Forum*, we reported on the development of the National Standards Systems Network (NSSN), a World Wide Web (WWW) site being produced by the Systems and Data Services Committee (SDSC) of the American National Standards Institute (ANSI). An update on this extensive project, a joint venture between government (the National Institute of Standards and Technology) and industry (ANSI), is given in the May/June 1997 issue of *Standards Engineering* in an article by Ken Peabody entitled "NSSN: A National Resource for Global Standards." A summary of the article follows.*

Two levels of service are now being offered at the NSSN WWW site (<http://www.nssn.org/>).

NSSN Basic is provided free of charge. Users may search a number of networked standards databases for "basic" information on specific standards, including the standards development organization, document number, title, and ordering information.

NSSN Enhanced is available by subscription, the price varying with the number of concurrent users required. This service offers a wider range of information and is touted to "make staying abreast of important (standards) information as easy as reading Email." In addition to the basic information, *NSSN Enhanced* provides scopes, references, equivalencies, and committee information. Access to additional information

sources is also provided that makes it possible to find information not only on approved, published standards, but on projects currently under development as well. This type of information is currently made available for American National Standards, ISO standards, and U.S. Department of Defense standards and specifications. Links to U.S. Government WWW sites containing standards or regulatory information are provided. Contacts to the ANSI-accredited standards development organizations (SDOs) are currently furnished, and the plans are to expand this list to over 700 U.S. SDOs. An especially useful aspect of *NSSN Enhanced* is the "Standards Alert Service." This feature allows the user to set up continuously active standards "profiles" using keywords or document numbers. When new projects or development-level changes occur in existing projects, the user is notified via Email.

Additional improvements in the NSSN are being planned. Many users would like to have electronic access to the documents themselves, and this capability is being developed. Also under investigation are a number of technologies that promise to facilitate the standards development process via the WWW.

The potential benefits offered to standards developers and users are numerous and valuable. The NSSN promises to be one convenient source of a variety of standards information, providing time savings, expanded information contacts, the ability to track standards development, a wider exposure for standards marketing efforts, and should help accelerate the whole standards development process.

A more detailed description of the NSSN can be found at the Web site, <http://www.nssn.org>, or in the *Standards Engineering* article mentioned above.

Two Primary ISO 14000 Information Sources



During the past year, the American National Standards Institute (ANSI) and Global Environment & Technology Foundation (GETF) worked together to provide ISO 14000 information to industry, government agencies, and environmental organizations. ANSI and GETF have now decided to continue their ISO 14000 information services on two separate Internet sites.

GETF's new website, globeNet™ (<http://www.iso14000.net/>), will replace IIS On-Line™ and continue to provide comprehensive daily coverage of ISO 14000 issues.

ANSI will host basic information concerning the ISO 14000 series of standards, including items such as history, a calendar of events, and a list of the purpose and status of the standards. The URL is: <http://www.ansi.org/iso14000/index.htm>.

(Continued on Page 15)

* Used with permission of the Standards Engineering Society, *SES Journal*, May/June 1997, vol. 49, No. 3. For subscription and membership information contact: Don Kear, SES Executive Director, 937-258-1955, kearses@aol.com.



Standards Actions

DOE Technical Standards Project Initiated

The following DOE technical standards project was recently initiated. If you are interested in participating in the development of this standard, please contact the person listed below.

- *Criteria for Safe Storage of Uranium 233 Bearing Metals and Oxides*, Project Number SAFT-0067, Ray Cooperstein, DP-45; 301-903-5353.

<http://apollo.osti.gov/html/techstds/techstds.html>.

The following DOE technical standards have recently been placed on the Internet:

- DOE-HDBK-1202-97, *Guide to Good Practices for Teamwork Training and Diagnostic Skills Development*, June 1997.
- DOE-HDBK-1205-97, *Guide to Good Practices for the Design, Development, and Implementation of Examinations*, June 1997.

DOE Technical Standards Recently Sent for Coordination

The appropriate Technical Standards Managers (TSM) will provide selected reviewers with copies for comment. If you wish to comment on a particular document, please notify your TSM. DOE documents sent for coordination during the past month are given below.

- *Applying the ALARA Process for Radiation Protection of the Public and Environmental Compliance with 10 CFR Part 834 and DOE 5400.5 ALARA Program Requirements –Volume 1– Discussion, and –Volume 2– Examples and Case Studies*, Project Number ENVR-0001, (Ken Duvall, EH-412, 202-586-0242, FAX 202-586-3915, Kenneth.Duvall@eh.doe.gov); comments due September 18, 1997.
- *Handbook for Controlling Release for Reuse or Recycle of Non-Real Property Containing Residual Radioactive Material*, Project Number ENVR-0009, (Ken Duvall, EH-412, 202-586-0242, FAX 202-586-3915, Kenneth.Duvall@eh.doe.gov); comments due September 18, 1997.

Technical Standards Program Document Status as of 08/29/97

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
4	39	22	0

Total in process = 61

Non-Government Standards

American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI.

For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, call Susan Bose at 212-642-4948, Email sbose@ansi.org. For further information on distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a complete listing of changes and new publications, standards-developing organizations, and additional information about submitting comments.

The following American National Standards are currently in coordination:

- AIHA Z9.7, *Recirculation of Air from Industrial Process Exhaust Systems* (new standard); comments due October 14, 1997.

(Continued on Page 8)

Documents Recently Published

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 423-576-8401 or FAX 423-576-2865.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 703-487-4650 or FAX 703-321-8547.

Copies of DOE technical standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) are also available on the Internet at the following address:

Standards Actions (Continued from Page 7)

- ANS 3.5, *Nuclear Power Plant Simulators for Use in Operator Training and Examination* (revision of ANSI/ANS 3.5-1993); comments due September 30, 1997.
- ASHRAE 34aa, *Number Designation and Safety Classification of Refrigerants* (supplement to ANSI/ASHRAE 34-1992); comments due October 14, 1997.
- ASHRAE 139P, *Method of Testing for Rating Desiccant Dehumidifiers Utilizing Heat for the Regenerative Process* (new standard); comments due October 14, 1997.
- ASME B30.25, *Scrap and Material Handlers* (new standard); comments due October 14, 1997.
- ASME PTC 4, *Performance Test Code - Steam Generating Units* (includes ASME 1968 and 1969 addenda) [revision of ANSI/ASME PTC 4.1-1964 (R1991)]; comments due September 30, 1997.
- ASME QME-1b, *Qualification of Active Mechanical Equipment Used in Nuclear Power Plants* (supplement to ANSI/ASME QME-1-1994); comments due October 14, 1997.
- ASME Y14.100M, *Engineering Drawing Practices* (new standard); comments due October 14, 1997.
- AWWA C203-97, *Coal-Tar Protective Coatings and Linings for Steel Water Pipelines - Enamel and Tape - Hot Applied* (revision of ANSI/AWWA C203-91); comments due September 30, 1997.
- AWWA C503-97, *Fire Hydrants, Wet-Barrel* (revision of ANSI/AWWA C503-88); comments due September 30, 1997.
- EIA SP-3712-A (if approved, to be published as ANSI/EIA 364-11), *Resistance to Solvents Test Procedure for Electrical Connectors* (revision of ANSI/EIA 364-11-1987); comments due October 14, 1997.
- EIA SP-3928 (if approved, to be published as ANSI/EIA 724), *Product Life Cycle Data Model* (new standard); comments due October 14, 1997.
- UL 80, *Standard for Safety for Steel Tanks for Oil-Burner Fuel* (revision of ANSI/UL 80-1992); comments due September 30, 1997.
- UL 1008, *Standard for Safety for Transfer Switch Equipment* (revision of ANSI/UL 1008-1988); comments due October 14, 1997.

The following newly published American National Standards are available from ANSI:

- ANSI A10.16-1995, *Construction and Demolition Operations - Safety Requirements for Tunnels, Shafts, and Caissons*.
- ANSI N13.30-1996, *Performance Criteria for Radiobioassay*.
- ANSI/AIHA Z9.4-1997, *Exhaust Systems - Abrasive-Blasting Operations - Ventilation and Safe Practices for Fixed Location Enclosures* (revision and redesignation of ANSI Z9.4-1985).
- ANSI/AMCA 240-96, *Laboratory Method of Testing Positive Pressure Ventilators for Rating*.
- ANSI/ASME A90.1-1997, *Safety Standard for Belt Manlifts* (includes revision service).

- ANSI/ASME B30.3-1996, *Construction Tower Cranes* (includes revision service).
- ANSI/ASME B40.3-1997, *Bimetallic Actuated Thermometers*.
- ANSI/AWWA C703-96, *Cold Water Meters - Fire Service Type*.
- ANSI/IESNA RP-27.1-96, *Recommended Practice for Photobiological Safety for Lamps and Lamp Systems - General Requirements*.
- ANSI/IEEE C37.2-1996, *Electrical Power System Device Function Numbers and Contact Designations*.
- ANSI/NFPA 498-1996, *Safe Havens and Interchange Lots for Vehicles Transporting Explosives*.
- ANSI S12.9-1996 (Part 4), *Quantities and Procedures for Description and Measurement of Environmental Sound - Part 4: Noise Assessment and Prediction of Long-Term Community Response*.
- ANSI/UCC 6-1996, *Application Standard for Shipping Container Codes* (revision, redesignation and consolidation of ANSI/UCC 2-1995 and ANSI/UCC 3-1995).

The following international standards are currently in coordination (comment due dates follow each entry):

- 64/952/FDIS, Draft revision of IEC 61140: *Protection against electric shock - Common aspects for installation and equipment* - August 30, 1997.
- ISO/DIS 8812, *Earth-moving machinery - Backhoe loaders - Definitions and commercial specifications* - October 10, 1997.
- ISO/DIS 11623, *Transportable gas cylinders - Periodic inspection and testing of composite gas cylinders* - October 10, 1997.
- ISO/DIS 11726, *Solid mineral fuels - Guidelines for the validation of alternative methods of analysis* - October 24, 1997.
- ISO/DIS 13792, *Thermal performance of buildings - Internal temperatures of a room in summer without mechanical cooling - General criteria for a simplified calculation method* - October 24, 1997.
- ISO/DIS 13994, *Clothing for protection against liquid chemicals - Determination of resistance of protective clothing materials to penetration by liquids under pressure* - October 3, 1997.
- ISO/DIS 15029-1, *Petroleum and related products - Determination of spray flame persistence of fire-resistant fluids - Part 1: UK Coal Board method* - October 17, 1997.
- prEN 12644-1, *Cranes - Safety - Requirements for inspection and use - Part 1: Instructions* - November 19, 1997.
- prEN 12897, *Water supply - Specification for indirectly heated unvented (closed) hot water storage systems* - October 22, 1997.
- prEN 12919, *Workplace atmospheres - Pumps for the sampling of chemical agents with a volume flow rate of over 5 l/min - Requirements and test methods* - October 29, 1997.
- prEN 12939, *Building materials - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Thick products of high and medium thermal resistance* - November 19, 1997.

(Continued on Page 9)

Standards Actions (Continued from Page 8)

- prEN 50091-1-2: 1997, *Uninterruptable power systems (UPS) - Part 1-2: General and safety requirements for UPS used in restricted access locations* - September 7, 1997.
- prEN 50216-8-2: 1997, *Power transformer and reactor fittings - Part 8: Oil drain devices - Section 2: Filling openings for oil immersed distribution transformers without conservator* - September 7, 1997.
- prEN ISO 1210, *Determination of the burning behavior of horizontal and vertical specimens in contact with a small-flame (50 W) ignition source (ISO/DIS 1210: 1997)* - September 2, 1997.
- prEN ISO 10101-1, *Natural gas - Determination of water by the Karl Fischer method - Part 1: Introduction (ISO 10101-1: 1993)* - December 3, 1997.
- prEN ISO 11690-3, *Acoustics - Recommended practice for the design of low-noise workplaces containing machinery - Part 3: Sound propagation and noise prediction in workrooms (ISO/TR 11690-3: 1997)* - October 29, 1997.
- prEN ISO 12572, *Building materials - Determination of water vapour transmission properties (ISO/DIS 12572: 1997)* - November 3, 1997.
- prEN ISO 15011-1, *Health and safety in welding and allied processes - Laboratory method for sampling fume and gases generated by arc welding - Part 1: Determination of emission rate and sampling for analysis of particulate fume (ISO/DIS 15011-1: 1997)* - November 17, 1997.

The following newly published international standards are available from ANSI:

- IEC 61950: 1997, *Cable management systems - Specification for conduit fittings for electrical installations for extra-heavy duty conduit.*
- ISO 3382: 1997, *Acoustics - Measurement of the reverberation time of rooms with reference to other acoustical parameters.*
- ISO 3977-1: 1997, *Gas turbines - Procurement - Part 1: General introduction and definitions.*
- ISO 4354: 1997, *Wind actions on structures.*
- ISO 5072: 1997, *Brown coals and lignites - Determination of true relative density and apparent relative density.*
- ISO 6107-2: 1997, *Water quality - Vocabulary - Part 2.*
- ISO 6243: 1997, *Climatic data for building design - Proposed system of symbols.*
- ISO 1940-2: 1997, *Mechanical vibration - Balance quality requirements of rigid rotors - Part 2: Balance errors.*
- ISO 11843-1: 1997, *Capability of detection - Part 1: Terms and definitions.*
- ISO 11925-2: 1997, *Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame - Part 2: Single flame source test.*
- ISO 14239: 1997, *Soil quality - Laboratory incubation systems for measuring the mineralization of organic chemicals in soil under aerobic conditions.*

American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9692. ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9743 (FAX 610-832-9666). ASTM has established a World Wide Web home page at the following URL: <http://www.astm.org>. The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

The following ASTM standards are currently in coordination (the due date for all items is September 10, 1997):

- New Standard, *Test Method for Determination of Bulk Density of Stockpiled Material Using Nuclear Backscatter Methods* (Ref. Z1997Z).
- New Standard, *Test Method for Determining the Volume of Bulk Materials Using Contours or Cross Sections Created by Direct Operator Compilation Using Photogrammetric Procedures* (Ref. Z1999Z).
- New Standard, *Specification for Arc and Flame Resistant Rainwear* (Ref. Z2161Z).
- New Standard, *Guide for Placement and Use of Diffusion Controlled Passive Monitors for Gaseous Pollutants in Indoor Air* (Ref. Z2728Z).
- New Standard, *Specification for Fixed Length Clampstick Type Live Line Tools* (Ref. Z3422Z).
- New Standard, *Guide for Selection of Sampling Equipment for Waste and Contaminated Media Data Collection Activities* (Ref. Z4173Z).
- New Standard, *Specification for Perpendicularly Oriented Mineral Fiber Roll and Sheet Thermal Insulation for Pipes and Tanks* (Ref. Z4394Z).
- New Standard, *Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field* (Ref. Z5731Z).
- New Standard, *Test Methods for Rough Handling of Unitized Loads and Large Shipping Cases and Crates* (Ref. Z5890Z).
- New Standard, *Practice for Assessment of Certification Programs for Environmental Professionals: Accreditation Criteria* (Ref. Z5983Z).
- New Standard, *Guide for Sample Selection of Debris Waste From a Renovation or Lead Abatement Project for Toxicity Characteristic Leaching Procedure* (Ref. Z6654Z).

(Continued on Page 10)

Standards Actions (Continued from Page 9)

- New Standard, *Practice for Selection of Sorbents and Pumped Sampling/Thermal Desorption Analysis Procedures for Volatile Organic Compounds in Air* (Ref. Z6685Z).
- New Standard, *Test Method for Metal Doors Used in Blast Resistant Applications (Equivalent Static Load Method)* (Ref. Z6756Z).
- New Standard, *Test Method for Minimum Ignition Energy of Dust-Air Mixtures* (Ref. Z6767Z).
- New Standard, *Guide for Consideration of Anaerobic Bioremediation As a Chemical Pollutant Mitigation Method on Land* (Ref. Z6900Z).
- Provisional, *Practice for Lifecycle Costing for Pollution Prevention*.
- C 423-90a, *Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method* (revised standard).
- D 121-95, *Terminology of Coal and Coke* (revised standard).
- D 1101-97, *Test Methods for Integrity of Adhesive Joints in Structural Laminated Wood Products for Exterior Use* (revised standard).
- D 4547-91 (includes change to title), *Guide for Selection of Sampling Waste and Soils for Volatile Organics*.
- D 4597-92 (includes change to title), *Practice for Sampling Workplace Atmospheres to Collect Organic Gases or Vapors With Activated Charcoal Diffusional Samplers* (revised standard).
- D 5681-91, *Terminology for Waste and Waste Management* (revised standard).
- E 76-97a, *Terminology of Fire Standards* (revised standard).
- E 1795-96, *Specification for Liquid Coating Encapsulation Products for Leaded Paint in Buildings* (revised standard).

The following newly published standards are available from ASTM:

- C 1158-97 (includes change to title), *Practice for Installation and Use of Radiant Barrier Systems (RBS) in Building Construction* (revised standard).
- C 1347-96a, *Practice for Preparation and Dissolution of Uranium Materials for Analysis* (revised standard).
- D 4050-96, *Test Method (Field Procedure) for Withdrawal and Injection Well Tests for Determining Hydraulic Properties of Aquifer Systems* (revised standard).
- D 6044-96, *Guide for Representative Sampling of Management of Waste and Contaminated Media* (new standard).
- E 1142-96, *Terminology Relating to Thermophysical Properties* (revised standard).
- E 1847-96, *Practice for Statistical Analysis of Toxicity Tests Conducted Under ASTM Guidelines* (new standard).
- PS 57-97, *Provisional Standard Test Method for Determining Ignitability of Clothing by Electric Arc Exposure Method Using a Mannequin* (new standard).

- PS 58-97, *Provisional Standard Test Method for Determining Arc Thermal Performance (Value) of Textile Materials for Clothing by Electric Arc Exposure Method Using Instrumented Sensor Panels* (new standard).

American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

American Society of Mechanical Engineers

Office: 345 East 47th Street
M/S 10C
New York, New York 10017

Contact: Kate Padilla
FAX: 212-705-8501
Email: padillak@asme.org

- ASME B 40.4, *Filled System Thermometers* (new standard).
- ASME B 40.7, *Gauges - Pressure Indicating - Digital* (new standard).

Hydraulic Institute

Office: 9 Sylvan Wat, Suite 160
Parsippany, NJ 07054-3802

Contact: John H. Doolin
FAX: 973-267-9055

- HI 9.6.1, *Pump NPSH Margin* (new standard).
- HI 9.8, *Pump Intake Design* (revision and redesignation of ANSI/HI 1.1-1.5-1994).

The International Society for Measurement and Control

Office: P. O. Box 12277, 67 Alexander Drive
Research Triangle Park, NC 27709

Contact: Shannon Lingo
FAX: 919-549-8288
Email: slingo@isa.org

- ISA SP75-25, *Control Valve Dynamic Testing* (new standard).

Comments or Questions

If you have any questions or comments, please contact Rick Serbu (EH-31), Manager, DOE Technical Standards Program Office (TSPO), phone 301-903-2856, FAX 301-903-6172, Email Richard.Serbu@eh.doe.gov. Questions or comments may also be referred to Don Spellman, c/o Performance Assurance Project Office, Oak Ridge National Laboratory, P.O. Box 2009, Oak Ridge, Tennessee 37831-8065, phone 423-574-7891, FAX 423-574-0382, Email spellmandj@ornl.gov.

The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 423-574-7886, Email lj8@ornl.gov.

Workshop 97 (Continued from Page 1)

Mr. Meier's keynote address, the workshop participants were treated to special presentations by Dr. Russel A. Vacante, Army Management Staff College, Ft. Belvoir, on the "RMS Partnership" (focused on reliability, maintainability, and sustainability standards) and Dr. Belinda Collins, National Institute of Standards and Technology (NIST), on the new leadership role of NIST in the implementation of the National Technology Transfer and Advancement Act of 1995.

**Russ Vacante****Belinda Collins****Kitty Kono****Tony O'Neill**

Early in the program, Peter Weiss, Office of Management and Budget, discussed the upcoming revision to OMB A-119. The point was made that PL 104-113 takes OMB A-119 one step further by imposing reporting requirements for nonuse of voluntary standards. In OMB's estimation, this is more prescriptive than what the long-standing OMB circular has required of Federal agencies. However, Trudie Williams, Department of Defense (DoD), was quick to point out that DoD has been following many of the provisions of the new law since before the law was enacted. DoD's efforts have included the cancellation of military specifications and standards in support of using what they refer to as non-Government (i.e., voluntary) standards and specifications. In short, the enactment of PL 104-113 has not been a major imposition to that agency.

In general, voluntary standards developing organizations are pleased with the new law. ASTM representative Kitty Kono stated that currently the majority of work being done on non-Government standards is not the result of new standards development; rather, it is in the updating of existing standards. She clearly indicated that the regulatory community has been a major participant in the development of ASTM standards and that this long-standing partnership should be expanded in the future. Tony O'Neill, representing both the National Fire

Protection Association and the American National Standards Institute (ANSI), also emphasized the need for increased participation to make the voluntary standards process better meet the needs of Federal agencies.

Standards in the international arena are having an impact on the U.S. as well. ISO 9000 is currently being adopted by the National Aeronautics and Space Administration (NASA). Presenter Carl Schneider stated that NASA has decided to apply the highly recognized quality assurance standard in its own day-to-day operations first, so that it can set an example of quality assurance leadership for its contractors. By the same token, Diane Meier of Lawrence Livermore National Laboratory informed the workshop attendees of the status of ISO 14000 implementation. Ten states are currently implementing pilot projects for this international standard on environmental management. Another "global" standards issue discussed at the workshop involves the application of strategic standardization principles by a number of private sector companies; Bob Walsh, ANSI, updated the workshop participants on progress achieved in strategic standardization initiatives undertaken by ANSI company members. Also, Oliver Smoot, Information Technology Industry Council, described initiatives and activities in the international arena related to information technology standards.

**Carl Schneider****Oliver Smoot****Ken Peabody**

Delivery of standards information was another key topic discussed at the 1997 workshop. Presentations on the information needs of standards users and current developments in standards information access were given by Chuck Moseley, Lockheed Martin Energy Systems; Diane Thompson, Information Handling Services; George Gianios, Department of Defense Single Stock Point; and Ken Peabody, ANSI Project Manager for the National Standards System Network.

Two technical sessions were dedicated to presentations on technical standards development activities within DOE. The topics covered by the presenters included metrology (Bob Wayland, Sandia National Laboratories), hoisting and rigging (Lynn Holt, Idaho National Engineering and Environmental

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Laboratory), health/safety issues associated with post-operation facility activities (George Detsis, DOE/EH-53), fire protection (Dennis Kubicki, DOE/EH-51), radiation control (Judy Foulke, DOE/EH-52), criticality safety (Richard Black,

Director, Office of Nuclear Safety Policy and Standards, DOE/EH-31), uninterruptable power supplies (John Fredlund, DOE/DP-45), lessons learned (Bobbie Smith, DOE/EM-43) and environmental surveillance/monitoring standards (Andy Wallo, DOE/EH-412). The sessions provided a forum for voluntary standards organization representatives at the workshop to learn about these activities and interact with the DOE/contractor personnel on issues where voluntary standards could be used in lieu of pursuing the development of DOE technical standards.

The final day of the workshop was dedicated to hearing from representatives from organizations external to DOE on the effects of PL 104-113 on their organization's activities and the perceived effects of PL 104-113 on the DOE "work-smart" standards (WSS) process. Key presenters included Ed Jordan, Nuclear Regulatory Commission; Mary McKiel, Environmental Protection Agency; Julie Abraham, National Highway Transportation Safety Administration, John D. Crawford, Jr, former member, Defense Nuclear Facilities Safety Board; Earl Carnes, DOE/EH-31; Frank Kornegay, Oak Ridge National Laboratory (ORNL); Dennis Murphy, Bechtel-Nevada; and Mike Weis, DOE/Rocky Flats Office.

The workshop closed with brief presentations by Rick Serbu, TSP Manager, DOE/EH-31; Madelyn Wilson, DOE/OSTI, and Don Williams, ORNL, on programmatic and procedural improvements being made to the TSP.

This was the fifth DOE workshop on the Technical Standards Pro-



Dick Black and Rick Serbu

gram, and it was by far the best yet. It would appear that the issue of technical standards is being raised to an entirely different level, in part due to the new public law mandating the use of existing voluntary standards. More important, however, it seems that in these times of budgetary cutbacks, organizations are realizing the need to stop "reinventing the wheel." This workshop made it clear that Federal agencies



Handouts and private conferences were popular

are taking more seriously the issue of using existing voluntary standards. Where there is a need for continued improvement is in the area of "participation." Participation goes hand in hand with the use of applicable voluntary standards. Russ Vacante said it best when he claimed that an

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The "packed house" had lots of questions



Judy Foulke



Bobbie Smith



Mary McKiel



Frank Kornegay



TSMC Meets in Washington, D.C.

The DOE Technical Standards Managers' Committee (TSMC) met on July 7-8, 1997, in Washington, D.C. Approximately 40 Technical Standards Managers (TSMs), designated alternates, and other representatives participated in the meeting's open discussion and breakout sessions. The meeting featured a tutorial by Jeff Feit on the Technical Standards Program (TSP) that was well attended by new TSMs and other interested individuals.

Highlights from the meeting are presented below.

1. A Legal Perspective on DOE Technical Standards - Jeanette Helfrich gave a presentation that explained some of the legal effects of DOE technical standards. She included a brief discussion on the following recent laws and regulations that affect the TSP: National Technology Transfer and Advancement Act of 1995 (Public Law 104-113), Small Business Regulatory Enforcement Fairness Act of 1996 (Public Law 104-121), and DOE Contract Reform Regulations (62 FR 34842). The presentation also covered the characteristics of "agency use" and nonuse of technical standards.
2. Revisions to Technical Standards Program Procedures (TSPPs) - Don Williams presented a summary of the recent changes made to the TSPPs. A new procedure (TSPP-11) was added to accommodate the TSP activity in the area of DOE topical committees. The general revision also reflects the policy changes resulting from the updating of PL 104-113, DOE O 252.1/DOE G-252.1-1, and DOE G-1430.1D. Other changes were related to procedure format, project screening, coordination activities, "adopted" non-Government standards, TSP functional areas, and reaffirmation, inactivation, and cancellation notifications.
3. TSP Performance Measures - Don Williams reviewed the progress being made in this area. His report was keyed to the program performance measures/indicators (PIs) that were proposed at the October 1996 TSMC meeting. The PIs cover three major topics: Policy/Program Management and Development, Technical Assistance/Program Support, and Communications/Outreach. Under Policy/Program Management and Development, progress was reported on

several policy and requirements document revisions, DOE elements still needing representation (by TSMs) in the TSP were identified, and the need for greater TSM participation in TSMC meetings was quantified. In the Technical Assistance/Program Support area, advances were delineated in the implementation of electronic reporting technologies (e.g. PDF files, Email access, and Web links to other standards activities), and future plans for improvements in information reporting were described. The Communications/Outreach report showed an increase in Topical Committee activities, the dynamics of the publications, and TSP workshop endeavors; the TSP was also vigorously promoted at a number of Federal and voluntary standards technical meetings. Opportunities for improvement in future TSP activities were also given, including the need for regular training sessions, the activation of dormant TSM positions, and the use of more and improved PIs.

4. TSP Functional Areas - Don Spellman briefly enumerated his work on the identification of new functional area designations to be used for more meaningful categorization of technical standards projects.
5. DOE Topical Committees - Norm Schwartz described the efforts to date for each of the eleven TSP topical committees. These committees include: the Backup Power Working Group, Emergency Management Special Interest Group (SIG) (EM SIG), Explosive Safety, Fire Protection, Industrial Hygiene/Occupational Safety SIG (IH/OS SIG), Metrology, Occurrence Reporting SIG (OR SIG), Packaging and Transportation SIG (PATs SIG), Performance-Based Management SIG (PBM SIG), Quality Management SIG (QM SIG), and Nuclear Safety Training.
6. Redesign of the TSP Home Page - Madelyn Wilson explained the progress being made on the redesign of the TSP home page. The redesign project centers around an architectural hierarchy using a structured design approach. The goal is to leverage the home page information to produce improved usefulness and value. Central features include development of a search engine for PDF and HTML documents, development of intuitive navigational tools, the inclusion of additional topics of TSP interest, increasing interactive capabilities, and promoting user "ownership" in the development of the home page. Some of the tools being used include the Netscape Navigator™ Frames technology, and Open Text Corporation software.
9. Document Searches on the TSP Home Page - A brief lesson on how to view, navigate, and search documents using Acrobat® Reader® software was given by Tammra Horning, Oak Ridge National Laboratory. Some special cautions were noted: "Any time you extract information, it is important to clearly identify the source. The user of the extracted information needs to be made aware that it is subject to change without them being notified. Extracting information and inserting it into another document increases the risk associated with loss of configuration control."

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News Briefs (Continued from Page 6)

Updated Technical Standards Program Procedures

A new general revision (dated June 1, 1997) to the Technical Standards Program Procedures (TSPPs) has been approved and distributed. This general revision incorporates comments received from DOE and DOE contractor Technical Standards Managers and reflects the latest field experience in the implementation of the procedures. Copies of the TSPPs are available (in PDF format) on the DOE Technical Standards Program home page. If you have any questions on the revised procedures, please contact either Don Williams, ORNL (423-574-8710; dw5@ornl.gov) or Rick Serbu, EH-31 (301-903-2856; Richard.Serbu@eh.doe.gov).



NIST Special Publication 903 Available On-Line



The *Directory of U.S. Private Sector Product Certification Programs*, is available in a searchable format at: <http://www.tmo-inc.com>. This document presents information on 178 U.S. private sector organizations that engage in product certification activities. Descriptions include organization profiles, product certification information, standards used, agency accreditations or recognitions, and other relevant details.

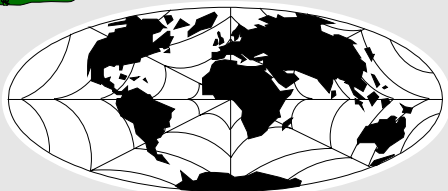


New Integrated Safety Management System Home Page

The DOE Integrated Safety Management (ISM) Program has rolled out its new Web site. ISM focuses on the integration of all the elements of environment, safety and health into one ES&H system. The program emphasizes the full inclusion and integration of ES&H into the totality of work as well as a focus on *accomplishing work safely*, rather than a focus on the ES&H requirements and programs for their own sake. The URL for the new Web site is: <http://tis-nt.eh.doe.gov/ism/>.



Be an early bird!



Catch *The Standards Forum* and *Standards Action* at:
<http://apollo.osti.gov/html/techstds/techstds.html>

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organization must be actively involved with professional societies in order to be competitive, and DOE is no exception to this observation.

Looking ahead to 1998, the Technical Standards Program hopes to team with other common interest groups (such as the RMS Partnership and another Federal agency with regulatory responsibilities) to conduct another workshop on the program. Watch for additional information to be published in future editions of *The Standards Forum* and also posted on the "DOE Technical Standards Program" home page at: <http://apollo.osti.gov/html/techstds/techstds.html>.

TSMC Meeting (Continued from Page 14)

10. Technical Standards Program Tutorial - A three-hour tutorial on the TSP was given by Jeif Feit. The tutorial is designed to provide each participant an opportunity to gain an understanding of both the TSP and the overall system of documents used within DOE, so that they can be better equipped for the roles of developing and using technical standards. In-depth discussions were given of the role of technical standards in the DOE document hierarchy, the use of voluntary (non-Government) standards, and the resources provided by the TSPO.

The next TSMC meeting will be held on December 4-5, 1997, in conjunction with the TRADE conference in Denver, Colorado. All TSMs are encouraged to attend and participate!

Address Changes - Please notify us of any change in your mail address in order to assure that you will continue to receive *The Standards Forum*. Even minor changes, e.g. in your Mail Stop, can cause it to be returned by local mail services, and will result in deletion from our address database!

The Standards

Forum

Editor Marty Marchbanks

Distribution: If you would like to have your name added to (or removed from) the mailing list for this publication, or you need to make an address change, please notify Marty Marchbanks, Oak Ridge National Laboratory (ORNL), 423-241-3658; FAX: 423-574-0382; Email: mmf@ornl.gov.

Comments: If you have any questions or comments please contact Rick Serbu, EH-31, 301-903-2856; Email:

Richard.Serbu@eh.doe.gov. If you have any questions or comments on DOE standards projects, please call Don Spellman, ORNL, 423-574-7891; Email: spellmandj@ornl.gov.

Publication: ORNL and DOE's Office of Scientific and Technical Information publish *The Standards Forum* quarterly for the DOE Technical Standards Program.

Upcoming Meetings

October 1-3, 1997

Global Standards Conference

Brussels, Belgium

The aim of the Conference is to facilitate the development of the Global Information Society/Global Information Infrastructure (GIS/GII) by addressing outstanding standardization issues. The conference is intended to provide an awareness of the issues and experience in standards development in order to promote progressive action throughout the various industries.

The Conference will consist of two plenaries on the first and last days, with the second day devoted to four major workshop: (1) - Electronic Commerce (Lead Coordinator: United States); (2) - Services to the Public (Lead Coordinator: Europe); (3) - Individual Use (Lead Coordinator: Canada); and, (4) - Interoperability (Lead Coordinator: Japan). A Lead Coordinator and four Regional Coordinators representing the participating regions of the Conference Steering Group (Canada, Europe, Japan and the United States) are coordinating the four Workshop Themes.

The Official Conference site can be found on the European Commission's Information Society Project Office (ISPO) Web site at <http://www.ispo.cec.be/standards/conf97/>. The full conference program, including the complete agendas for the Opening and Closing Plenaries and the four Theme Groups, can be found at <http://www.ispo.cec.be/standards/conf97/program.html>. The registration form for the conference can be found on the Official Conference Site. The Conference Secretariat can be reached at glstdconf@dg3.cec.be. Questions regarding U.S. participation in the conference may be directed to Chick Hayden, chayden@ansi.org.

October 15, 1997

World Standards Day Reception, Exhibit, and Dinner

Marriott at Metro Center, Washington, D.C.

Theme: *International Standards and Global Trade*

World Standards Day is a week-long series of events celebrated annually by the standards and business communities to recognize the importance of standardization to the world economy. Other events occurring during the week of October 13 include the ANSI Award Banquet, ANSI's Annual Business Meeting, and a symposium entitled "The Road to 2000... Maintaining U.S. Global Competitiveness." The symposium will focus on the challenges and opportunities in a global marketplace facing all U.S. businesses entering the next century.

For more information, contact Susan Bose, 212-642-4948, sbose@ansi.org, or the World Standards Day home page, <http://www.ansi.org/docs/WSD.html>.



November 16-20, 1997

1997 American Nuclear Society (ANS) Winter Meeting.

Albuquerque Convention Center - Albuquerque, New Mexico

Theme: *Environmental Aspects of Radioactive Waste Disposal, Isotope Production and Applications, Nuclear Applications of Accelerator Technology*

Embedded topical meetings: "Utility Plant Staff Downsizing and Re-engineering: A Status Report of Industry Efforts," "Environmental Issues and Risks in Operating an MRS," and "Nuclear Applications of Accelerator Technology."

For more information, see the ANS Web site calendar at <http://www.ans.org/calendar/> or contact a meeting chair: Dr. James Jackson, Los Alamos National Laboratory, P.O. Box 1663, M/S A101, Los Alamos, NM 87545, 505-667-4168, FAX: 505-667-2997, or Ambassador C. Paul Robinson, Sandia National Laboratories, P.O. Box 5800, Albuquerque, NM 87185-0149, 505-845-9381, FAX: 505-844-6307.

The Nuclear Technology Expo will be held November 16-18 during the meeting. For more information, contact Pat Pollock, 630-352-6464.

December 2-4, 1997

1997 TRADE Conference

Adams Mark Hotel - Denver, Colorado

Theme: *Focus on Business Performance - Maximizing Our Return on Investment*

The three U.S. Department of Energy offices hosting the 21st annual TRADE Conference are the Rocky Flats Field Office, the Golden Field Office, and the Western Area Power Administration.

The main topic areas are:

- Making key business decisions in the DOE environment
- Maintaining organizational strength during times of change
- Meeting DOE and corporate goals for performance
- Trends, mandates, and initiatives in Special Interest Groups (SIGs) **Note: A number of SIGs are recognized as topical committees under the Technical Standards Program (TSP). Also, in conjunction with the TRADE Conference, a TSP tutorial will be given on December 2, 1997, and the DOE Technical Standards Managers' Committee will meet on December 4-5, 1997.**
- New technologies/paradigms for training and education

Pre-Conference events: some SIG meetings, training workshops, and the icebreaker—with its opportunities for informal sharing—are scheduled for Monday, December 1, 1997.

For more information, contact Denise Hawkins, TRADE Conference Manager, hawkinsd@orau.gov.